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Get Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: ☒ Create new Work File View: INPADOC | Jump to: ☒ Go to: [Derwent](#)☒ Email this to a friendTitle: **JP9124327A2: FINE HOLLOW GLASS BALL AND ITS PRODUCTION**Derwent Title: Producing micro glass balloons - used as lightweight filler for plastics, floating material for ships, synthetic wood or artificial marble ([Derwent Record](#))

Country: JP Japan

Kind: A

Inventor: YAMADA KENJI;
HIRANO HACHIRO;
SATO MASAKUNI;Assignee: ASAHI GLASS CO LTD
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Published / Filed: 1997-05-13 / 1996-08-21

Application Number: JP1996000220120

IPC Code: C03B 19/08; C03C 11/00; C08K 3/40;

ECLA Code: B63B43/10; C03C11/00B;

Priority Number: 1995-08-28 JP1995000219068

Abstract: PROBLEM TO BE SOLVED: To readily produce fine hollow glass beads having a uniform particle size by subjecting formulated glass raw materials containing a foaming agent to wet milling to form a slurry of fine particles and heating them in the form of liquid drops for vitrification.

SOLUTION: Glass raw materials such as silica sand, soda ash, borax, lime and the like and a foaming agent such as sodium sulfate are mixed to prepare a formulated glass raw materials. This formulated glass raw materials are wet-crushed to prepare of a slurry of a formulated glass raw materials of 3µm average particle size. The suitable crusher is made of alumina or zirconia at the liquid contacting with the liquid. Then, the slurry is atomized into liquid particle by spraying, ultrasonic atomization, or centrifugation, heating the liquid particles to effect vitrification and simultaneously produce fine hollow glass beads. The objective fine hollow glass beads have a particle size of 1-50µm, a real density of 0.1-1.5g/cm³, a low specific gravity and is useful as a floatation material for ships.

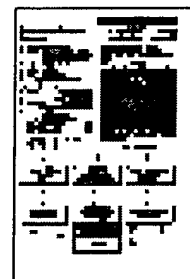
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Family: None

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
			Tanaka;	Asahi Glass	Fine hollow glass sphere and



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1 page

	US6531222	2003-03-11	Masaharu	Company, Limited	method for preparing the same
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Other Abstract
Info:

DERABS C1997-316360 DERABS C1997-316360



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publication: **13.05.97**(84) Designated contracting
states:(71) Applicant: **ASAHI GLASS CO LTD**(72) Inventor: **YAMADA KENJI
HIRANO HACHIRO
SATO MASAKUNI**

(74) Representative:

**(54) FINE HOLLOW GLASS
BALL AND ITS
PRODUCTION**

(57) Abstract:

PROBLEM TO BE SOLVED: To readily produce fine hollow glass beads having a uniform particle size by subjecting formulated glass raw materials containing a foaming agent to wet milling to form a slurry of fine particles and heating them in the form of liquid drops for vitrification.

SOLUTION: Glass raw materials such as silica sand, soda ash, borax, lime and the like and a foaming agent such as sodium sulfate are mixed to prepare a formulated glass raw materials. This formulated glass raw materials are wet-crushed to prepare of a slurry of a formulated glass raw materials of 31 m average particle size. The suitable crusher is made of alumina or zirconia at the liquid contacting with the liquid. Then, the slurry is atomized into liquid particle by spraying, ultrasonic atomization, or centrifugation, heating the liquid particles to effect vitrification and simultaneously

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produce fine hollow glass beads. The objective fine hollow glass beads have a particle size of 1-50 μ m, a real density of 0.1-1.5g/cm³, a low specific gravity and is useful as a floatation material for ships.

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